INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004697

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01J9/22			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
Int.Cl ⁷ H01J9/22			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
·			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
Х	JP 2003-31113 A (Toshiba Cor	p.),	1-3
Y	31 January, 2003 (31.01.03), Par. Nos. [0073] to [0079]	•	4-7
	(Family: none)		
Υ .	JP 2002-358883 A (Sony Corp.		4,5,7
	13 December, 2002 (13.12.02), Par. Nos. [0021] to [0022]		·
		554379 A	•
Y	JP 11-70796 A (Dainippon Printing Co., Ltd.), 6,7		
·	16 March, 1999 (16.03.99),		
	Par. No. [0031] (Family: none)		
	•		, .
		·	
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "Begin a document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
"E" earlier applic	plication or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be		
"L" document w	hich may throw doubts on priority claim(s) or which is blish the publication date of another citation or other	step when the document is taken alone "Y" document of particular relevance; the	
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive combined with one or more other such	step when the document is documents, such combination
"P" document published prior to the international filing date but later than		being obvious to a person skilled in the "&" document member of the same patent	art
Date of the actual 05 July	completion of the international search (05.07.04)	Date of mailing of the international sear 20 July, 2004 (20.0	ch report 07.04)
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•		Authorized officer	
Japanese Patent Office			
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